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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/552,631	10/07/2005	Ragnar Tryggvason	05049.0004	8991		
	7590 06/26/200 ENDERSON, FARAB	EXAMINER				
LLP	ŕ	KURTZ, BENJAMIN M				
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application N	lo.	Applicant(s)				
			10/552,631		TRYGGVASON ET AL.			
Office Action Summary			Examiner		Art Unit			
			BENJAMIN KI	JRTZ	1797			
Period fo	The MAILING DATE of this commur r Reply	nication appe	ars on the co	ver sheet with the c	orrespondence ac	ddress		
WHIC - Exter after - If NO - Failui Any r	ORTENED STATUTORY PERIOD F CHEVER IS LONGER, FROM THE IN Isions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this com- period for reply is specified above, the maximum is the to reply within the set or extended period for reply eply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	MAILING DATES of 37 CFR 1.136 munication. tatutory period will y will, by statute, care	TE OF THIS (a). In no event, he apply and will expense the application	COMMUNICATION owever, may a reply be tim- rire SIX (6) MONTHS from on to become ABANDONEI	J. nely filed the mailing date of this of (35 U.S.C. § 133).			
Status								
1) ズ	Responsive to communication(s) file	ed on <i>11 Jun</i>	ne 2009					
′=	, ,	<u></u>	action is non-	final.				
′=	Since this application is in condition	<i>/</i> —			secution as to the	e merits is		
· , _	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)🖂	Claim(s) 22,24,25 and 30-58 is/are	pending in th	ne application	ı.				
	4a) Of the above claim(s) <u>30-35</u> is/are withdrawn from consideration.							
5)	☐ Claim(s) is/are allowed.							
6)🖂	Claim(s) <u>22,24,25 and 36-58</u> is/are	rejected.						
	Claim(s) is/are objected to.	•						
-	Claim(s) are subject to restri	ction and/or e	election requ	irement.				
Applicati	on Papers							
9)□ .	The specification is objected to by th	ne Examiner.						
· -	The drawing(s) filed on <u>07 October 2</u>			d or b) objected	to by the Examin	ier.		
, _	Applicant may not request that any obje							
	Replacement drawing sheet(s) including			-		FR 1.121(d).		
11)	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority u	ınder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) Notic 3) Inforr	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (I nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	PTO-948)	4) 5) 6)	Interview Summary Paper No(s)/Mail Da Notice of Informal P Other:	nte			

DETAILED ACTION

Claims 22, 24, 25 and 30-58 are pending, claims 30-35 are withdrawn and claims 1-21, 23 and 26-29 are cancelled.

Claim Rejections - 35 USC § 102 and 103

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

1. <u>Claims 22, 24, 25, 36, 38, 39, 45, 46 and 52 are rejected under 35</u> U.S.C. 102(b) as being anticipated by Meyer US 2 743 230.

Claim 22, Meyer teaches a cartridge (10) including: an inner space, an inlet (21) formed at a first end of the cartridge, an outlet (26) formed at a second end of the cartridge and a device (21) comprising a hollow body defined by a wall enclosing a cavity of the hollow body, the hollow body having a first end and a second end and

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being provided with at least one slit shaped opening (22) extending through the wall, the first end of the hollow body being mounted to the cartridge at the inlet such that the hollow body extends into the inner space and the second end of the hollow body is located in the inner space of the cartridge, the first end of the hollow body being open, wherein the at least one slit shaped opening has a first extension and a second extension being substantially perpendicular to the flow direction and to the first extension, wherein the second extension is significantly shorter than the first extension and significantly shorter than a length of the slit shaped opening in the flow direction (fig. 1-4).

Claims 24, 25, 36, 38, 39, 45, 46 and 52, Meyer further teaches the cartridge includes a filter (26) arranged at the outlet, the filter permits fluid to pass though the filter in a filter direction (fig. 1); the filter includes at least one slit shaped opening (25), which has a first extension and a second extension being substantially perpendicular to the filter direction and to the first extension of the slit shaped opening of the filter, wherein the second extension of the slit shaped opening is significantly shorter than the first extension of the slit shaped opening of the filter (fig. 1-4); the hollow body has a center axis and an elongated tubular shape along the center axis (fig. 1); the hollow body at the first end has an engaging means configured to connect the device to the cartridge (fig. 1); the first extension is substantially perpendicular to the flow direction (fig. 1-4); the at least one slit shaped opening is a plurality of slit shaped openings extending through the wall (fig. 1-4); the plurality of slit shaped openings are distributed around the wall (fig. 1-4); and the flow direction forms an angle to the center axis (fig. 1-4).

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2. <u>Claims 22, 24, 36-39, 45-49, 52 and 55-57 are rejected under 35 U.S.C. 102(b)</u> as being anticipated by Meissner US 5 707 536.

Claim 22, Meissner teaches a cartridge (15) including: an inner space, an inlet (115) formed at a first end of the cartridge, an outlet (175) formed at a second end of the cartridge and a device (150) comprising a hollow body defined by a wall enclosing a cavity of the hollow body, the hollow body having a first end and a second end and being provided with at least one slit shaped opening (154) extending through the wall, the first end of the hollow body being mounted to the cartridge at the inlet such that the hollow body extends into the inner space and the second end of the hollow body is located in the inner space of the cartridge, the first end of the hollow body being open, wherein the at least one slit shaped opening has a first extension and a second extension being substantially perpendicular to the flow direction and to the first extension, wherein the second extension is significantly shorter than the first extension and significantly shorter than a length of the slit shaped opening in the flow direction (fig. 2, 5).

Claims 24, 36-39, 45-49 and 52, Meissner further teaches the cartridge includes a filter (135) arranged at the outlet, the filter permits fluid to pass though the filter in a filter direction (fig. 5); the hollow body has a center axis and an elongated tubular shape along the center axis (fig. 5); the hollow body is tapering along the center axis towards the second end of the hollow body (fig. 5); the hollow body at the first end has an

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engaging means configured to connect the device to the cartridge (fig. 2, 5); the first extension is substantially perpendicular to the flow direction (fig. 1-4); the at least one slit shaped opening is a plurality of slit shaped openings extending through the wall (fig. 2); the plurality of slit shaped openings are distributed around the wall (fig. 2); the hollow body has a wall portion at least in the proximity of the second end of the hollow body, and wherein the at least one slit shaped opening extends through the wall portion (fig. 2); the wall portion has a tip like shape (fig. 2); the wall portion is substantially conical (fig. 2); and the flow direction forms an angle to the center axis (fig. 2).

Claim 55, Meissner teaches a cartridge (15) including: an inner space, an inlet (115) located at a first end of the cartridge, an outlet (175), a device (150) comprising a hollow body defined by a wall enclosing a cavity of the hollow body, the hollow body having a first end and a second end and being provided with at least one slit shaped opening (154) extending through the wall, the first end of the hollow body being mounted to the cartridge at the inlet such that the hollow body extends into the inner space and the second end of the hollow body is located in the inner space of the cartridge, the first end of the hollow body being open, wherein the at least one slit shaped opening has a first extension and a second extension being substantially perpendicular to the flow direction and to the first extension, wherein the second extension is significantly shorter than the first extension and significantly shorter than a length of the slit shaped opening in the flow direction and a filter (135) arranged at the outlet, wherein the filter is a planar filter (fig. 2, 5).

Claims 56 and 57, Meissner further teaches the at least one slit shaped opening is located nearer to the first end of the cartridge than a second end of the cartridge, the second end of the cartridge being opposite the first end of the cartridge (fig. 5); and the filter is attached to the second end of the cartridge (fig. 5).

3. <u>Claims 40-44 are rejected under 35 U.S.C. 103(a) as being unpatentable</u> over Meyer '230 or Meissner '536.

Meyer and Meissner teach the cartridge of claim 22 but do not teach the recited dimensions of the second extension. The only difference between the prior art and the claims is a recitations of relative dimensions of the second extension. [W]here the only difference between the prior art and the claims was a recitation of relative dimensions of the claimed device and a device having the claimed relative dimensions would not perform differently than the prior art device, the claimed device is not patentably distinct from the prior art device, *Gardner v. TEC Systems, Inc.*, 220 USPQ 777 (1984).

4. <u>Claims 50 and 53 are rejected under 35 U.S.C. 103(a) as being unpatentable</u> over Meissner '536 and Weber US 3 155 612.

Meissner teaches the cartridge of claim 47 as detailed above but does not teach the wall portion being substantially planar. Weber teaches a hollow body having a wall portion (11) in the proximity of a second end with at least one slit shaped opening

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extending through the wall portion wherein the wall portion is substantially planar and a center axis extends substantially in parallel with a normal direction of the planar wall portion (fig.1-4). The recitation of configuration of the wall portion is a recitation of a change in shape of the wall portion. The configuration of the apparatus is a matter of choice which a person of ordinary skill in the art would have found obvious absent persuasive evidence that the particular configuration is significant, *In re Dailey*, 149 USPQ 47 (1966). Furthermore, the claimed shape of the wall portion is known in the prior art and would have been obvious because the technique for improving a particular class of devices was part of the ordinary capabilities of a person of ordinary skill in the art, in view of the teaching of the technique for improvement in other situations, KSR International Co. v. Teleflex Inc., 82 USPQ2d 1385 (2007).

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5. <u>Claims 50 and 51 are rejected under 35 U.S.C. 103(a) as being unpatentable</u> over Meissner '536 and Hensley US 4 787 987,

Meissner teaches the cartridge of claim 47 as detailed above but does not teach the wall portion being substantially planar. Hensley teaches a hollow body having a wall portion (40) in the proximity of a second end with at least one slit shaped opening extending through the wall portion wherein the wall portion is substantially planar and wherein a normal direction of the wall portion forms an angle of inclination to the center axis (fig. 1, 3). The recitation of configuration of the wall portion is a recitation of a change in shape of the wall portion. The configuration of the apparatus is a matter of choice which a person of ordinary skill in the art would have found obvious absent

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persuasive evidence that the particular configuration is significant, *In re Dailey*, 149 USPQ 47 (1966). Furthermore, the claimed shape of the wall portion is known in the prior art and would have been obvious because the technique for improving a particular class of devices was part of the ordinary capabilities of a person of ordinary skill in the art, in view of the teaching of the technique for improvement in other situations, KSR International Co. v. Teleflex Inc., 82 USPQ2d 1385 (2007).

6. <u>Claim 54 is rejected under 35 U.S.C. 103(a) as being unpatentable over</u>

<u>Meissner '536, Correge et al. US 4 421 646, Weis et al. US 3 730 348 and Marks US</u>

3 317 044.

Barlow teaches the cartridge of claim 22 where the slit shaped opening of the filter element has an upstream and downstream end but does not teach the second extension increasing from the upstream end to the downstream end. Changing the cross section of the slit over the length is only a change in the shape of the slit and is very well known in the art as shown in Correge, Weis and Marks. The configuration of the apparatus is a matter of choice which a person of ordinary skill in the art would have found obvious absent persuasive evidence that the particular configuration is significant, *In re Dailey*, 149 USPQ 47 (1966). Also, all the claimed elements, i.e. the shape of the slit, were known in the prior art and one skilled in the art could have combined the elements as claimed by known methods with no change in their respective functions, and the combination would have yielded predictable results to one of ordinary skill in the

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art at the time of the invention, KSR International Co. v. Teleflex Inc., 82 USPQ2d 1385 (2007).

7. <u>Claims 25 and 58 are rejected under 35 U.S.C. 103(a) as being unpatentable</u> over Meissner '536, Weber '612, Hensley '987, Marks '044 and Weis '348.

Meissner teaches the cartridge of claims 24 and 57 as detailed above where the filter has at least one opening but does not teach the filter including a slit shaped opening. The claim limitation of a slit shaped opening is merely a change in the shape of the opening of the filter. All of the prior art cited teach a filter having the claimed shape of s slit shaped opening, which has a first extension and a second extension being substantially perpendicular to the filter direction and to the first extension, wherein the second extension is significantly shorter than the first extension and significantly shorter than a length of the slit shaped opening in the flow direction, Meissner (150), Weber (11), Hensley (34), Marks (24) and Weis (30). The configuration of the apparatus is a matter of choice which a person of ordinary skill in the art would have found obvious absent persuasive evidence that the particular configuration is significant, In re Dailey, 149 USPQ 47 (1966). Also, all the claimed limitations, i.e. the shape of the slit, were known in the prior art and one skilled in the art could have combined the elements as claimed by known methods with no change in their respective functions, and the combination would have yielded predictable results to one of ordinary skill in the

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art at the time of the invention, KSR International Co. v. Teleflex Inc., 82 USPQ2d 1385 (2007).

Response to Arguments

8. Applicant's arguments with respect to claims 22 and 55 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to BENJAMIN KURTZ whose telephone number is (571)272-8211. The examiner can normally be reached on Monday through Friday 8:00am to 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on 571-272-1166. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Benjamin Kurtz Examiner Art Unit 1797

/Krishnan S Menon/ Primary Examiner, Art Unit 1797